

FORM PTO-1449

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Sabine Balthasar, et al.

Serial No. : 10/590,601

Filing Date : August 24, 2006

Examiner :

Group Art Unit:

Title : Carrier System in the Form of Protein-Based Nanoparticles for
the Cell-Specific Enrichment of Pharmaceutically Active
Substances

Attorney File : RO4304US (#90568)

Mail Stop Amendment
 Commissioner for Patents
 P O Box 1450
 Alexandria, Virginia, 22313-1450

**U S PATENT DOCUMENTS**

Examiner Initial	Document Number	Date	Name
------------------	-----------------	------	------

U.S. Published Applications

Examiner Initial	Document Number	Date	Name
------------------	-----------------	------	------

Foreign Patent Documents

Examiner Initial	Document Number	Date	Country	Translation (Yes/No)
_____	EP 1598419	11/23/2005	EPO	No
_____	WO 98/56370	12/17/98	WO	No

WO 01/91808	12/6/01	WO	No
WO 04/076658	9/10/04	WO	No

Other Prior Art (Inc. Author, Title, Date, Pertinent Pages, Etc)

Examiner Initial	Document
_____	Artemov, et al.; "MR molecular imaging of the Her-2/neu receptor in breast cancer cells using targeted iron oxide nanoparticles;" <i>Magnetic Resonance in Medicine</i> ; Academic Press; Vol. 49, No. 3; March 2003; pp. 403-408 *
_____	Bourel, et al.; "A new immunoreagent for cell labelling CD3 monoclonal antibody covalently coupled to fluorescent polymethacrylic nanoparticles;" <i>Journal of Immunological Methods</i> ; Vol. 106, No. 2 (1988); pp. 161-168 *
_____	Harma, et al.; "Zeptomole detection sensitivity of prostate-specific antigen in a rapid microtitre plate assay using time-resolved fluorescence;" <i>Luminescence</i> ; Vol. 15, No. 6 (2000); pp. 351-355 *
_____	Langer, et al., "Preparation of avidin-labeled protein nanoparticles as carriers for biotinylated peptide nucleic acid;" <i>European Journal of Pharm. & Biopharm</i> ; Vol. 49 (2000); pp. 303-307
_____	Loiler, S.A., et al., "Targeting Recombinant adeno-associated virus vectors to enhance gene transfer to pancreatic islets and liver;" <i>Gene Therapy</i> ; Sept., 2003; Vol. 10
_____	Nobs, et al.; "Poly(lactic acid) nanoparticles labelled with biologically active Neutravidin (TM) for active targeting;" <i>European Journal of Pharmaceutics and Biopharmaceutics</i> ; Vol. 58, No. 3; Nov. 2004; pp. 483-490 *
_____	Renson, et al., "Recombinant Lipoproteins: Lipoprotein-like lipid particles for drug targeting;" <i>Advanced Drug Delivery Reviews</i> ; (2001); pp. 251-276
_____	Rolland, et al.; "Monoclonal antibodies covalently coupled to polymethacrylic nanoparticles in-vitro specific targeting to human T lymphocytes;" <i>International Journal of Pharmaceutics</i> ; Vol. 39, No. 1-2 (1987); pp. 173-180 *
_____	Sakahara, S.A., et al., "Avidin-biotin system for delivery of diagnostic agents;" <i>Advanced Drug Delivery Reviews</i> ; Vol. 37 (1999); pp. 89-101
_____	Wu, et al.; "Immunofluorescent labelling of cancer marker Her2 and other

cellular targets with semiconductor quantum dots;" *Nature Biotechnology*;
Vol. 21, No., 1; pp. 41-46 *

Examiner

/Thurman Wheeler/

Date Considered:

10/02/2009

Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant

* - denotes a copy will follow

*** - It is noted that WO 2004/076658 contains 133 pages and EP 1598419 contains 83. Therefore, only the first page of each reference is provided. The Applicant can provide the full text of either or both documents at the Examiner's request.